

FIG. 1

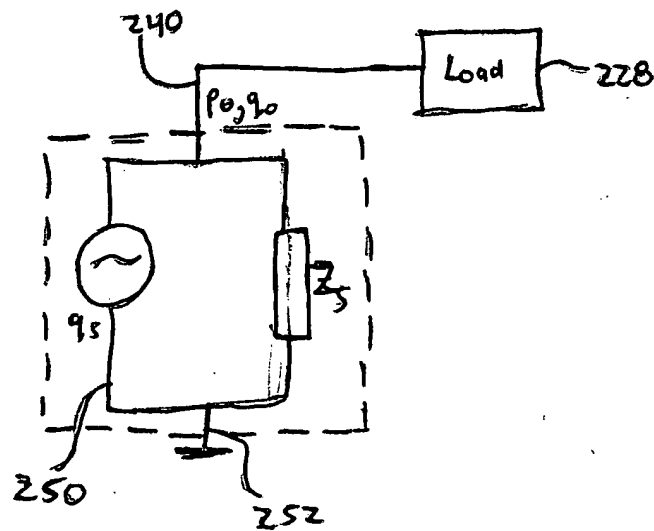
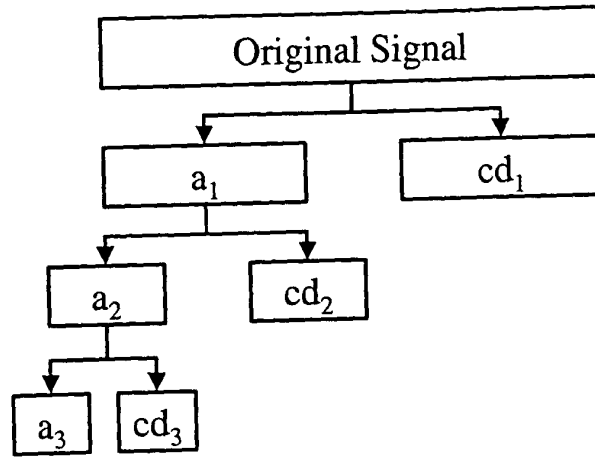


FIG. 2



**FIG. 3**

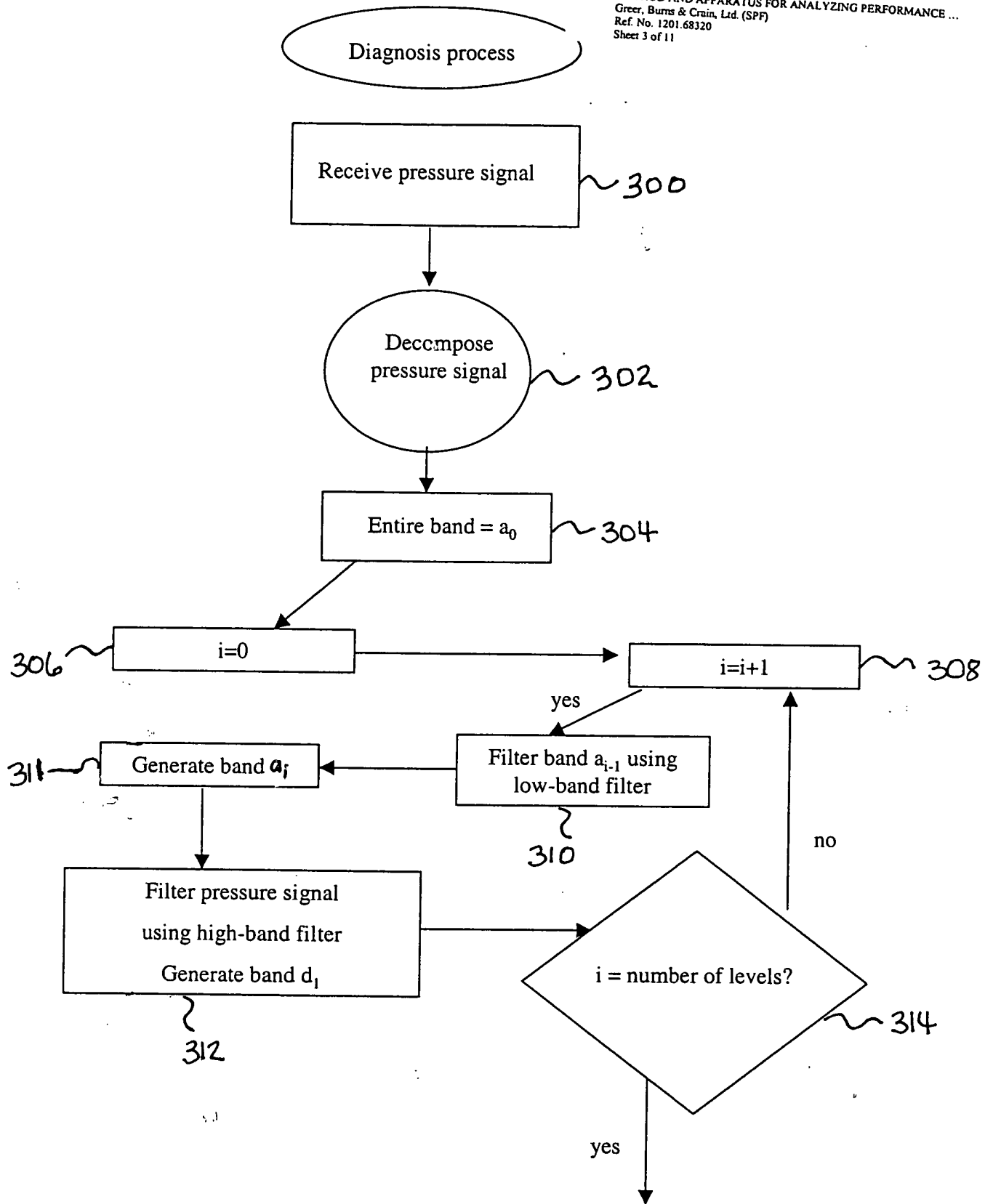


FIG. 4A

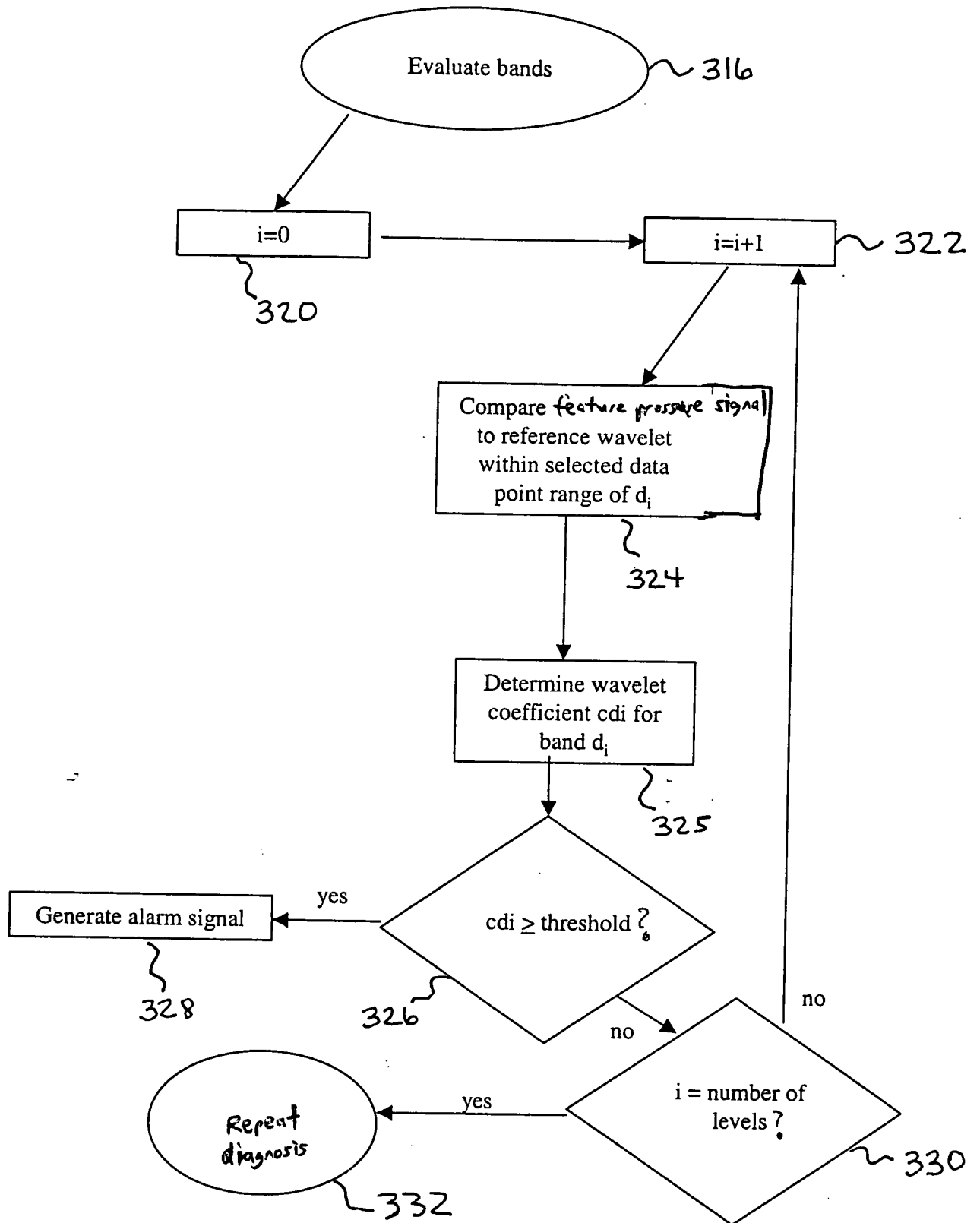


FIG. 4B

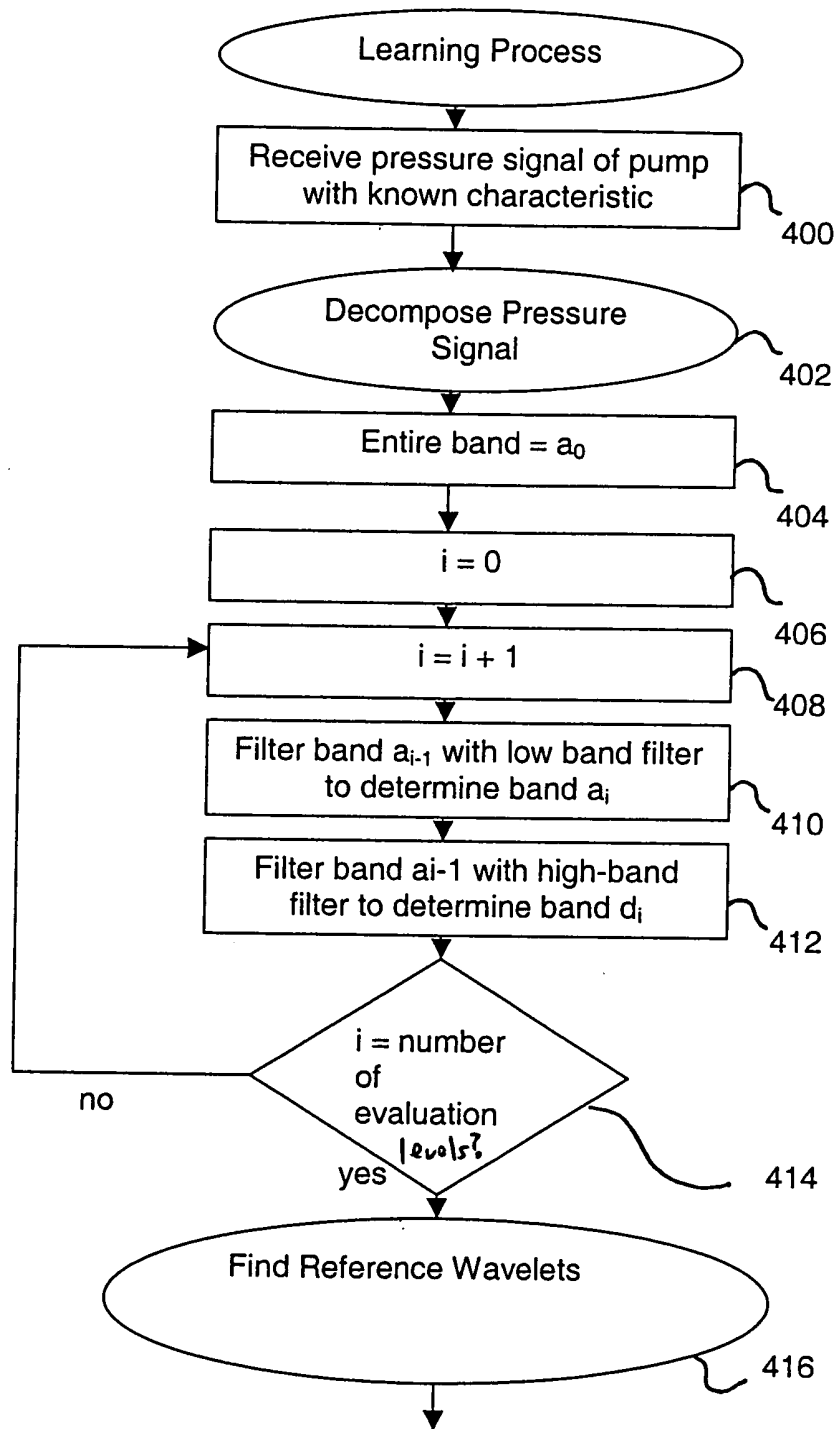


FIG. 5A

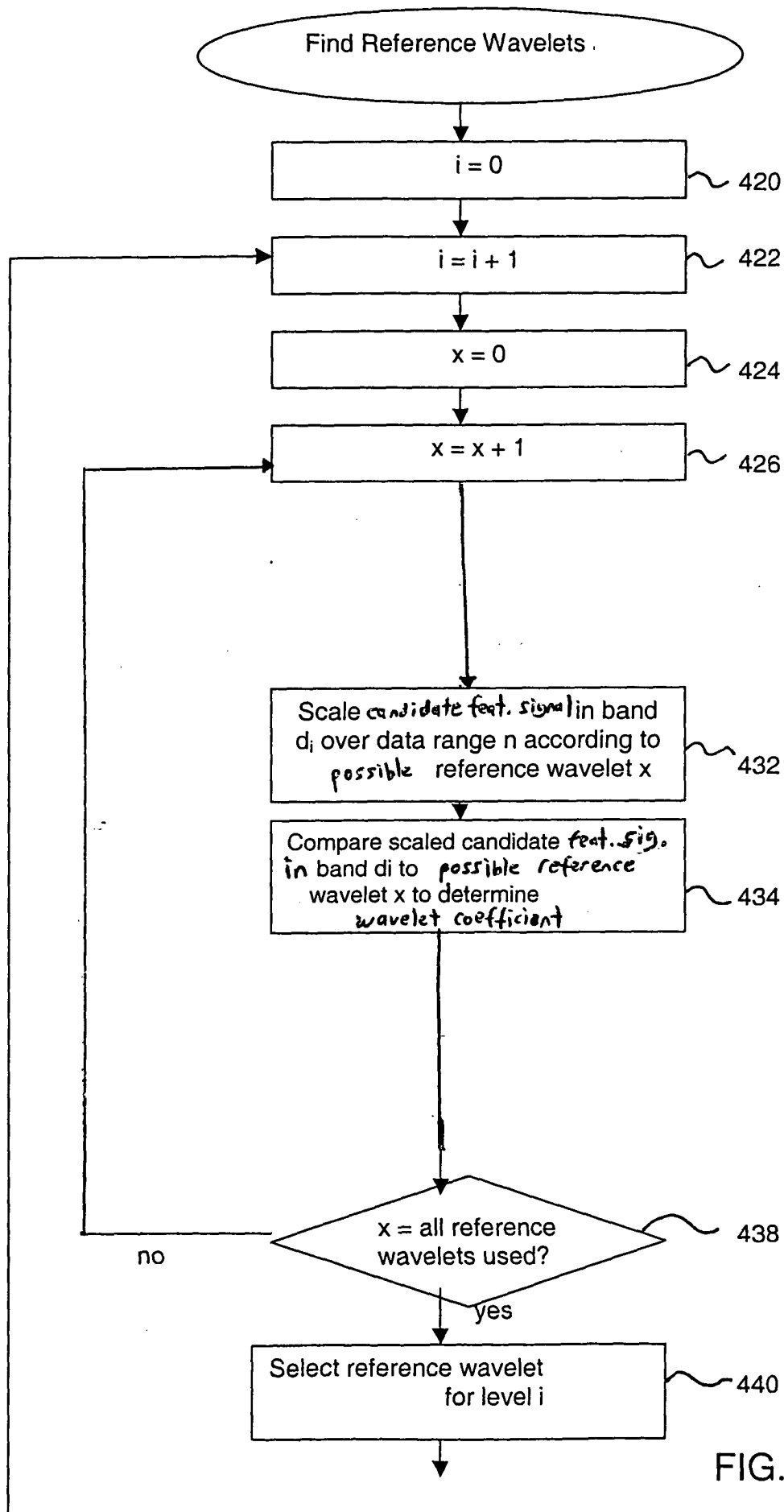


FIG. 5B

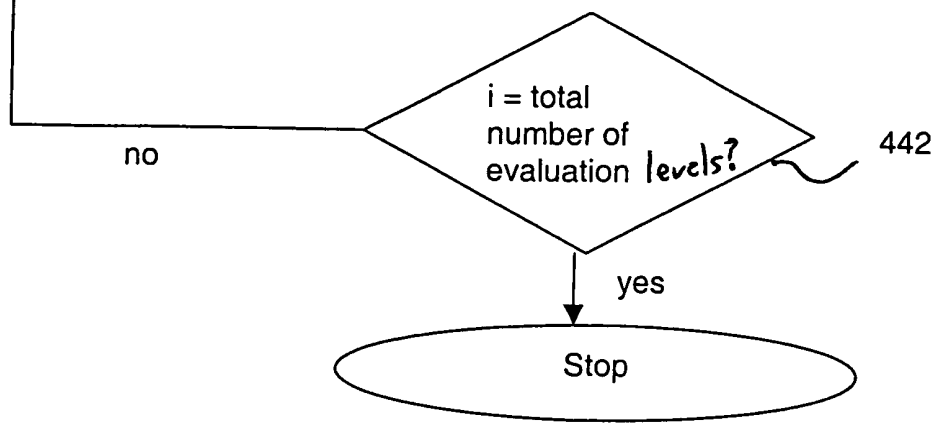


FIG. 5C

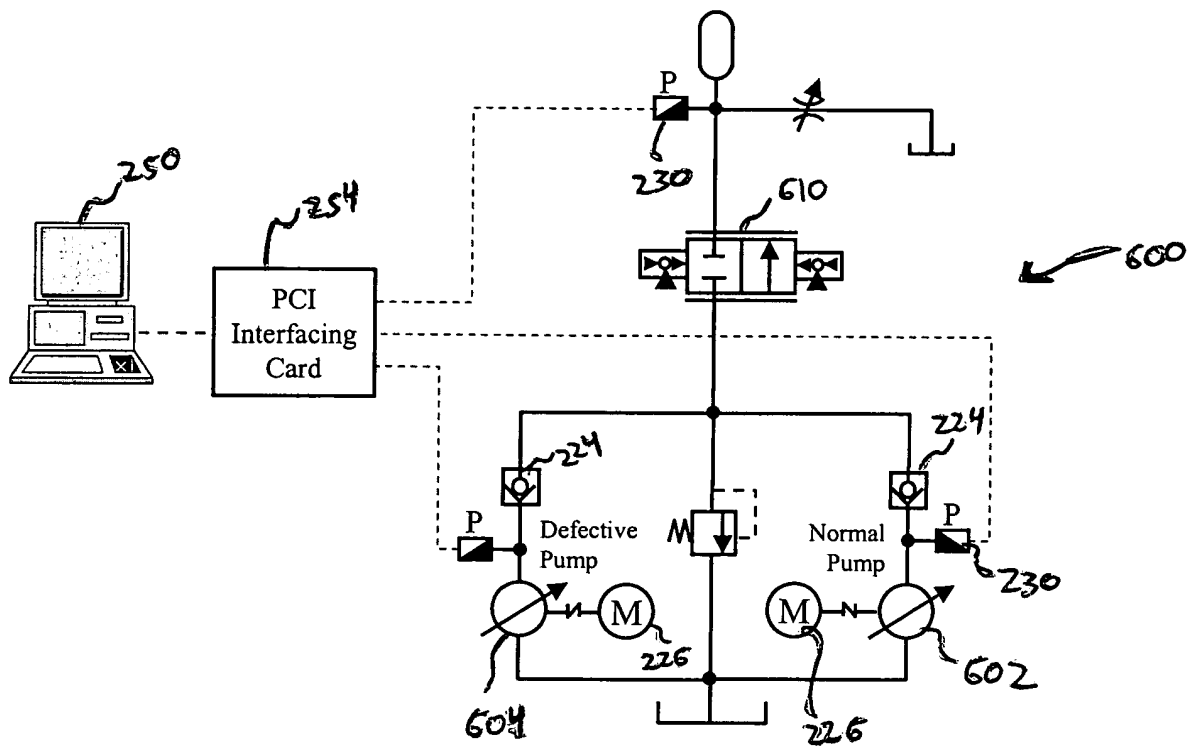


FIG. 6



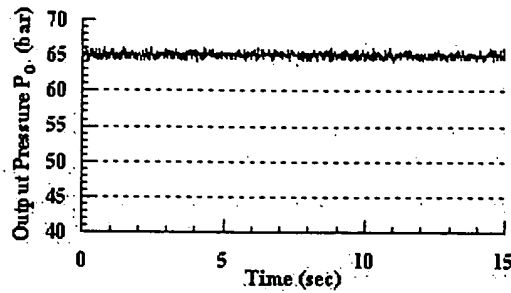


FIG. 7A

(a) Original signal of pump discharge pressure

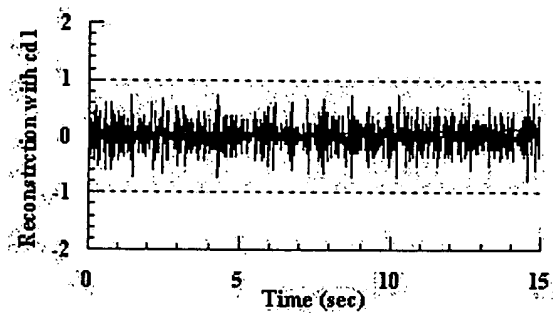


FIG. 7B

(b) Wavelet coefficient of layer 1 decomposed signal,  $cd_1$

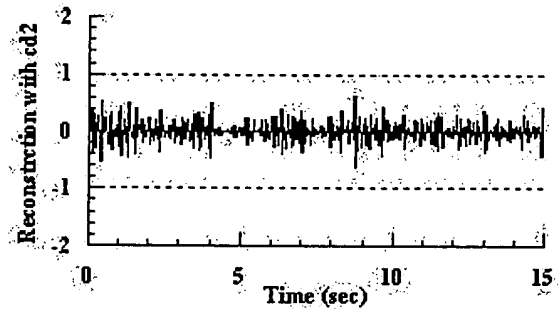


FIG. 7C

(c) Wavelet coefficient of layer 2 decomposed signal,  $cd_2$

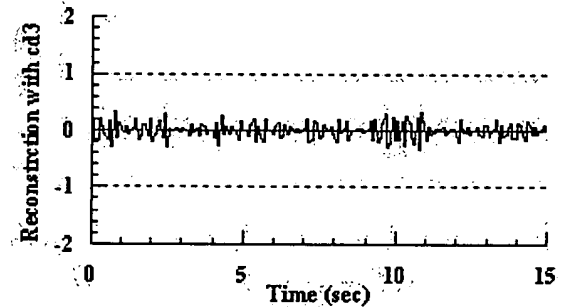


FIG. 7D

(d) Wavelet coefficient of layer 3 decomposed signal,  $cd_3$

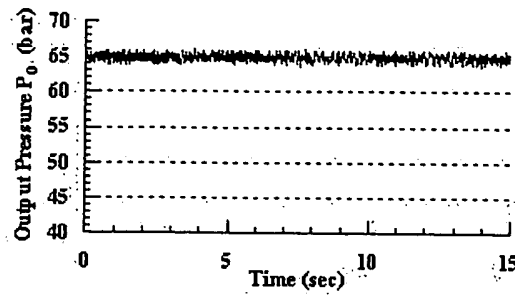


FIG. 8A

(a) Original signal of pump discharge pressure

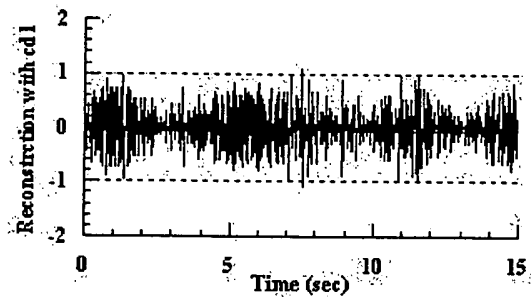


FIG. 8B

(b) Wavelet coefficient of layer 1 decomposed signal,  $cd_1$

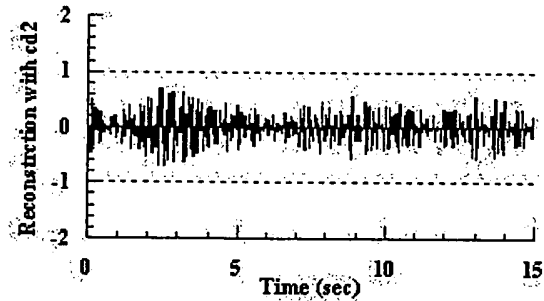


FIG. 8C

(c) Wavelet coefficient of layer 2 decomposed signal,  $cd_2$

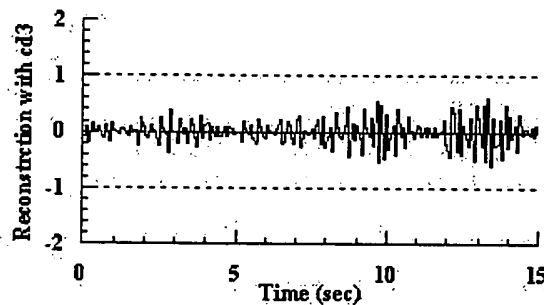


FIG. 8D

(d) Wavelet coefficient of layer 3 decomposed signal,  $cd_3$

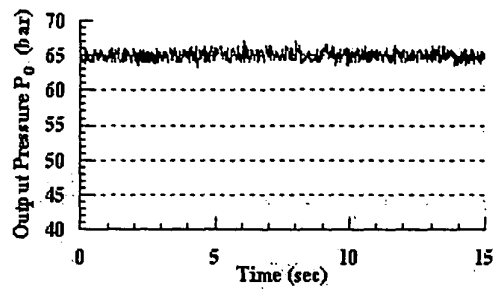


FIG. 9A

(a) Original signal of pump discharge pressure

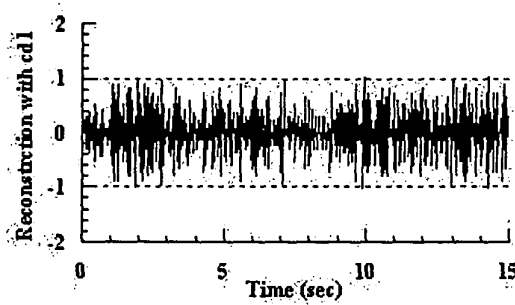


FIG. 9B

(b) Wavelet coefficient of layer 1 decomposed signal,  $cd_1$

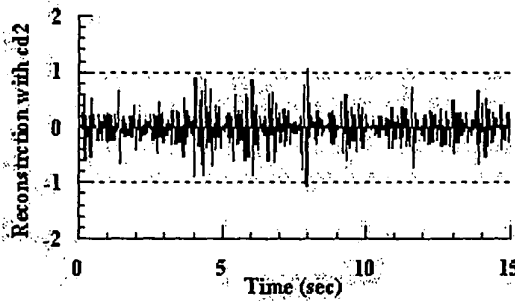


FIG. 9C

(c) Wavelet coefficient of layer 2 decomposed signal,  $cd_2$

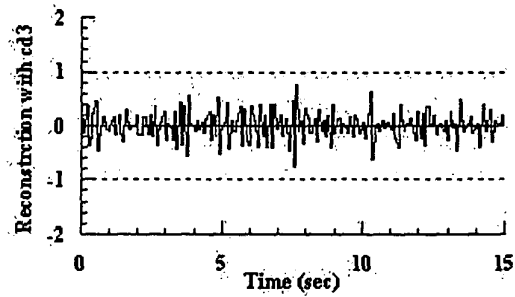


FIG. 9D

(d) Wavelet coefficient of layer 3 decomposed signal,  $cd_3$